

ABSTRACT

Medical devices for insertion and delivery into a variety of anatomical structures, including vascular structures such as the superior vena cava and the inferior vena cava. In certain embodiments, the medical device includes a hollow body having a main portion and two ends, each end including atraumatic arms; and a graft material is attached to the body; where the body is expandable from a constrained position to an unconstrained position, the atraumatic arms of at least one end are outwardly oriented at an acute angle with respect to the main portion when the body is in the unconstrained position, and graft material contacts one arm that is oriented at an acute angle. Methods for creating an anastomosis between two structures, such as two vascular structures, using the disclosed medical devices.